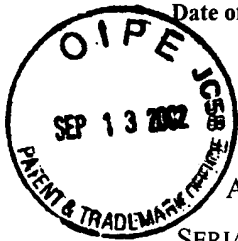


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Date of Deposit: September 13, 2002

Attorney Docket No.: 22058-560CIP4DIV3CON



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Lin, et al.  
SERIAL NUMBER : 09/989,350 EXAMINER : J. Ulm  
FILING DATE : November 20, 2001 ART UNIT : 1646  
FOR : Novel TNF Receptor death Domain Ligand Protein and Inhibitors of  
Ligand Binding

**BOX IDS**

Commissioner for Patents,  
Washington, D.C. 20231



30623

PATENT TRADEMARK OFFICE

**TRANSMITTAL LETTER**

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (1 page), in duplicate;
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of Cited References A1-A4, B1-B15, and C1-C29; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 22058-560 CIP4DIV3CON. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529  
David E. Johnson, Reg. No. 41,874  
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Dated: September 13, 2002



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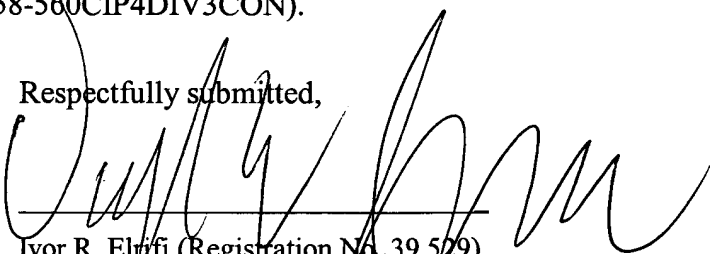
**BOX IDS**  
Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application, copies of which are submitted herewith.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 (Reference No. 22058-560CIP4DIV3CON).

Respectfully submitted,

  
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Modified Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

<b>Application Number</b>	09/989,350
<b>Filing Date</b>	November 20, 2001
<b>First Named Inventor</b>	Lin
<b>Group Art Unit</b>	1646
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	22058-560 CIP4DIV3CON

**U.S. PATENT DOCUMENTS**

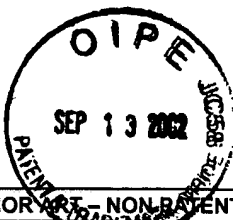
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	5,563,039	10/08/96	Goeddel, et al.			
	A2	5,464,938	11/07/95	Smith, et al.			
	A3	5,506,340	04/09/96	Heavner			
	A4	5,296,592	03/22/94	Dower, et al.			

**FOREIGN PATENT DOCUMENTS**

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	Translation No
	B1	WO 96/34095	Human Genome Sciences, Inc.	10/31/1996		
	B2	WO 95/31544	Yeda Research and Development Co., Ltd.	11/23/1995		
	B3	WO 95/33051	Genentech, Inc.	12/07/1995		
	B4	WO 94/01548	Medical Research Council	01/20/1994		
	B5	WO 94/10207	Chiron Corporation	05/11/1994		
	B6	WO 92/14834	The Whittier Institute for Diabetes and Endocrinology	09/03/1992		
	B7	WO 92/03471	Chiron Corporation	03/05/1992		
	B8	WO 92/03470	Chiron Corporation	03/05/1992		
	B9	EP 0 585 939	Yeda Research and Development Co., Ltd.	03/09/1994		
	B10	EP 0 308 378	Yeda Research and Development Co., Ltd.	03/22/1989		
	B11	EP 0 393 438	Boehringer Ingelheim International G.M.B.H.	10/24/1990		
	B12	EP 0 433 900	Yeda Research and Development Co., Ltd.	06/26/1991		
	B13	EP 0 526 905	Yeda Research and Development Co., Ltd.	02/10/1993		
	B15	WO 93/19777	Immunex Corp.	10/14/1993		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1	Miki, et al. (1992). "Disruption of the APC Gene by a Retrotransposal Insertion of L1 Sequence in a Colon Cancer" <i>Cancer Res.</i> 52: 643-645.
	C2	Darnay, et al. (1994). "Identification of a Protein Kinase Associated with the Cytoplasmic Domain of the p60 Tumor Necrosis Factor Receptor" <i>J. Biol. Chem.</i> 269(32): 20299-20304.
	C3	Kiefer, et al. (1992). "Characterization of Recombinant Human Insulin-like Growth Factor Binding Proteins 4,5 and 6 Produced in Yeast" <i>J. Biol. Chem.</i> 267(18): 12692-12699.
	C4	Genbank Accession Number: <b>T08593</b> (05/23/93).
	C5	GenBank Accession Number: <b>T07800</b> (07/21/00).
	C6	GenBank Accession Number: <b>M78050</b> (05/26/92).



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OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C7	GenBank Accession Number: <b>M78539</b> (05/26/92).
	C8	GenBank Accession Number: <b>U44953</b> (07/01/96).
	C9	GenBank Accession Number: <b>U48254</b> (08/03/96).
	C10	Tartaglia, et al. (1992). "Tumor Necrosis Factor Receptor Signaling" <i>J. Biol. Chem.</i> <b>267</b> (7): 4304-4307.
	C11	Tartaglia, et al. (1993). "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor" <i>Cell</i> <b>73</b> : 213-216.
	C12	Gyuris, et al. (1993). "Cdi1, a Human G1 and S Phase Protein Phosphatase That Associates with Cdk2" <i>Cell</i> <b>75</b> : 791-803.
	C13	Schall, et al. (1990). "Molecular Cloning and Expression of a Receptor for Human Tumor Necrosis Factor" <i>Cell</i> <b>61</b> : 361-370.
	C14	Shimasaki, et al. (1991). "Identification of Five Different Insulin-like Growth Factor Binding Proteins from Adult Rat Serum and Molecular Cloning of a Novel IGFBP-5 in Rat and Human" <i>J. Biol. Chem.</i> <b>266</b> (16): 10646-10653.
	C15	Saragovi, et al. (1992). "Loops and Secondary Structure Mimetics: Development and Applications in Basic Science and Rational Drug Design" <i>BioTechnology</i> <b>10</b> : 773-778.
	C16	McDowell, et al. (1992). "Structural Studies of Potent Constrained RGD Peptides" <i>J. Am. Chem. Soc.</i> <b>114</b> (24): 9245-9253.
	C17	Kaufman, et al. (1991). "Improved vectors for stable expression of foreign genes in mammalian cells by use of the untranslated leader sequence from EMC virus" <i>Nucleic Acids Res.</i> <b>19</b> (16): 4485-4490.
	C18	Kaufman, et al. (1990). "Selection and Coamplification of Heterologous Genes in Mammalian Cells" <i>Methods in Enzymology</i> <b>185</b> : 537-566.
	C19	Gietz, et al. (1992). "Improved method for high efficiency transformation of intact yeast cells" <i>Nucleic Acids Res.</i> <b>20</b> (6): 1425.
	C20	Waye, et al. (1995). "Gene expression of adult human heart as revealed by random sequencing of cDNA library" <i>Protein Engineering</i> <b>8</b> : 90.
	C21	Auffray, et al. (1995). "IMAGE: integrated molecular analysis of the human genome and its expression" <i>Life Sciences</i> <b>318</b> : 263-272. <b>English Abstract</b>
	C22	Rothe, et al. (1994). "A Novel Family of Putative Signal Transducers Associated with the Cytoplasmic Domain of the 75 kDa Tumor Necrosis Factor Receptor" <i>Cell</i> <b>78</b> : 681-692.
	C23	Song, et al. (1994). "Aggregation of the Intracellular Domain of the Type 1 Tumor Necrosis Factor Receptor Defined by the Two-hybrid System" <i>J. Biol. Chem.</i> <b>269</b> (36): 22492-22495.
	C24	Tartaglia, et al. (1993). "A Novel Domain within the 55 kd TNF Receptor Signals Cell Death" <i>Cell</i> <b>74</b> : 845-853.
	C25	Boldin, et al. (1995). "Self-association of the "Death Domains" of the p55 Tumor Necrosis Factor Receptor and Fas/APO1 Prompts Signaling for the TNF and Fas/APO1 Effects" <i>J. Biol. Chem.</i> <b>270</b> : 387-391.
	C26	Hsu, et al. (1995). "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF- $\kappa$ B Activation" <i>Cell</i> <b>81</b> : 495-504.
	C27	Boldin, et al. (1995). "A protein related to a proteasomal subunit binds to the intracellular domain of the p55 TNF receptor upstream to its 'death domain'" <i>FEBS Letters</i> <b>267</b> : 39-44.
	C28	Adams, et al. (1992). "Sequence identification of 2,375 human brain genes" <i>Nature</i> <b>355</b> : 632-634.
	C29	Adams, et al. (1993). "Rapid cDNA sequencing from a directionally cloned human infant brain cDNA library" <i>Nature Genetics</i> <b>4</b> : 373-380.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.